

**SET 12**

**(Java - while loop)**

1. Write a program to find factorial of a number
2. Write a program to find the sum of digits of given number
3. Write a program to find the sum up to a number
4. Write a program to find reverse of a number
5. Write a program to find the binary equivalent of a given number
6. Write a program to find decimal equivalent of a given binary number
7. Write a program which accepts principal amount and rate of interest per month as input and print the amount at the end of the each year till principal amount get doubled.
8. Write a program which accept population of a country in crores and also growth rate per year and also accept number of years to predict the growth rate. And print the predicted population for every year till the given number of years.
9. Write a program to print first n prime numbers
10. Write a program to find the sum of the series

$$S = \frac{1}{1!} + \frac{2}{2!} + \dots n$$

11. Write a program to find the sum of the series

$$S = \frac{1}{1^1} + \frac{2}{2^2} + \frac{3}{3^3} \dots n$$

12. Write a program to find sum of the series

$$S = \frac{1}{(x+1)} + \frac{2}{(x+2)} - \frac{3}{(x+3)} + \frac{4}{(x+4)} - \dots n$$

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